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Commercial Fertilizers, Commercial Feeds

AND

Agricultural Liming Materials

REPORT OF VITAMIN D ASSAYS

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VITAMIN D ASSAY—FALL 1938

This bulletin contains the results of the assay of twenty-one brands of vitamin D supplements. The assay was conducted according to the Association of Official Agricultural Chemists' chick method procedure. This well known method is based on the relationship between vitamin D intake and bone formation in chickens. A known amount of vitamin D in the form of the U. S. P. Reference Cod Liver Oil is added to a specific basal rachitic ration. What is calculated from the guaranteed potency to be an equal quantity of vitamin D from a test oil is added to a portion of the basal rachitic ration. These supplemented rations are fed to groups of baby chicks for three weeks and the calcification of the bones is estimated by determining the bone ash content of the tibia of the chicks of each group. If the test oil contained the amount of vitamin D claimed in the guarantee, the bone ash of the chicks fed the ration supplemented with the test oil should be equal to that of the chicks receiving the reference oil. If the bone ash of the test oil group is lower than that of the Reference Oil group, the product is judged to be deficient.

In the table, the term "Guarantee Sustained" indicates that the product was found to be of the potency guaranteed; and "Guarantee Not Sustained" indicates the oil to be lower than the potency guaranteed. Three of the twenty-one samples were found to contain less vitamin D than guaranteed.

Assays will be conducted semi-annually in the future and the results published periodically.

RESULTS OF THE ASSAY OF SAMPLES OF VITAMIN D CARRIERS FALL 1938

Manufacturer	Brand Name	Guarantee A.O.A.C. Chick Units Per Gram	Result of Test
The Acton Company Philadelphia, Pennsylvania	Actocol Cod Liver Oil	225	Guarantee sustained
	Acton XX Medicinal Cod Liver Oil, U. S. P.	85	Guarantee not sustained
	Acton Cod Liver Oil	85	Guarantee not sustained
The Atlantic Supply Company Baltimore, Maryland	Poultry Cod Liver Oil	85	Guarantee sustained
Consumers' Import Company, Inc., New York City	De Luxe U. S. P. Cod Liver Oil	85	Guarantee sustained

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	Acton Cod Liver Oil	85	Guarantee not sustained
The Atlantic Supply Company Baltimore, Maryland	Poultry Cod Liver Oil	85	Guarantee sustained
Consumers' Import Company, Inc., New York City	De Luxe U. S. P. Cod Liver Oil	85	Guarantee sustained
The Fox Company Newfield, New Jersey	Fox Quality Cod Liver Oil	85	Guarantee sustained
	Fox Special U. S. P. Cod Liver Oil	85	Guarantee sustained
Gunning & Gunning New York City, New York	"Vi-Test 400" Fortified Cod Liver Oil	400	Guarantee sustained
Chas. L. Huisking & Company Inc., New York City	Vitamine Brand Cod Liver Oil	85	Guarantee sustained
	Vitamine Brand Cod Liver Oil Fortified	400	Guarantee sustained
King Brothers and Company, Philadelphia, Pennsylvania	King's Xtra Cod Liver Oil	85	Guarantee not sustained
McKesson & Robbins, Inc. Bridgeport, Connecticut	Isdahl's U. S. P. Poultry Cod Liver Oil	100	Guarantee sustained
National Oil Products Company, Inc., Harrison, New Jersey	Nopco XX	400	Guarantee sustained
Pratt Food Company Philadelphia, Pennsylvania	Pratt's Cod Liver Oil	85	Guarantee sustained
Sea Board Supply Company, Inc. Philadelphia, Pennsylvania	Cod Liver Oil	250	Guarantee sustained
Silmo Chemical Corporation, Vineland, New Jersey	Silmo XX	400	Guarantee sustained
	Poultry D Cod Liver Oil	85	Guarantee sustained
The Swiftide Company, Portland, Maine	Swiftide Pure Cod Liver Oil	85	Guarantee sustained
Vitamol, Inc. New York City, New York	Vitamol XX	400	Guarantee sustained
White Laboratories, Inc. Newark, New Jersey	Health Products Vitamin Tested Cod Liver Oil	85	Guarantee sustained
	Clo-Trate Cod Liver Oil, Fortified	400	Guarantee sustained